

**BUREAU OF LAND MANAGEMENT
ELKO FIELD OFFICE
BURNED AREA EMERGENCY REHABILITATION PLAN AND ACCOMPLISHMENT REPORT**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	RESEED BURNED-OVER RANGE USING DRILL OR AERIAL METHODS	AGENCY:	BLM, Elko F.O.
PART E LINE ITEM:	N-3b Ecological Stabilization - Planting/Seeding (BLM 98-148 III. Q)	FISCAL YEAR(S) (list each year):	2000-2001

I. WORK TO BE DONE

Number and Describe Each Task:	
A. General Description:	Fires within the Elko 13 Fire Complex have negatively impacted mid to late seral plant communities and increased the potential for erosion, loss of ecological integrity through the invasion of non-native species, and the spread of known populations of noxious weeds. Range sites within the 13 fires covered under this plan have been analyzed and prioritized for treatment to prevent site degradation, maintain ecological stability, and prevent spread of non-native, invasive weeds along roads by reseeding using species adapted to the sites.
B. Location (Suitable) Sites:	Basin, Beowawe, Big Springs, Kelly Creek, Linka, and Omni Fires. See Map Index, Treatment Section
Site Preparation:	
a.	Seed mixtures as identified in Appendix III obtained for each treatment area
b.	Seeding areas have been pre-identified for treatment
c.	Appropriate clearances (NEPA and Archaeological) are obtained
d.	Equipment is calibrated to project specifications established and administered by the local BLM Office
e.	Seed to be applied at specified rates using rangeland drills or aerially (helicopter or fixed wing) or hand planted
f.	Monitoring conducted on seed application rates, treatment sites, and contractual specification compliance during seeding operations.
Seed: See attached Seed Mix	
1.	Seed should be tested for purity and germination rates. Before excepting delivery of seed shipment the contractor must provide written evidence (seed label and letter) to the Resource Advisor that the seed conforms to the purity and germination requirements in the specification. Test methods specified in <i>Rules for Testing Seeds, Proceedings of the Association of Official Seed Analyst</i> will be acceptable for determining the germination rate. Seed designated without a purity or germination rate shall be labeled to include the name, date (month and year) collected, and the name and address of the seed supplier.
2.	Delivery: Deliver pre-mixed certified weed-free seed sold on a pure live seed basis. Deliver to Contract Specified Location.
3.	Storage: Seed should be applied as soon as possible after delivery. If immediate application is not possible the seed should be stored as follows: On-site stored seed must be protected from dew and rain. Seed must be stored under cover near a selected helibase site or near sites appropriate for basing ground (drilling operations) and protected from livestock and wildlife, etc.
4.	Application Rate: Seed should be applied according to Agency Project Specifications.
5.	Application Method: Pilot will apply according to line of sight and personal discretion, will utilize visible markers as necessary for swath continuity within the high to moderate fire severity areas. Tractor and drill operator will apply seed as flagged and at specified rates.
D. Purpose of Treatment Specifications:	Stabilize soils in high to moderate burn intensity areas; protect the ecological integrity of native plant communities; and provide competing vegetation (cultural control methods) to prevent further spread of non-native, invasive weeds within the fire area.

II. LABOR, MATERIALS AND OTHER COST:

PERSONNEL SERVICES: (Grade @ Cost/Hours X # Hours X # Fiscal Years = Cost/Item Do not include contract personnel costs here (see contractor services below).	COST/ITEM
Project Inspector GS-11 @ \$20.05/hr X 300 hrs (10 hrs/day X 30 days) for Year 1 (FY2001)	\$6,015.00

Project Inspector GS-11 @ \$20.05/hr X 500 hrs (10 hrs/day X 50 days) for Year 2 (FY2002)	\$10,025.00
Air Support Personnel @ \$ 1,000/day x 20 days (Helitak seasonals or AD hires)	\$20,000.00
TOTAL PERSONNEL SERVICE COST	\$36,040.00
► EQUIPMENT PURCHASE, LEASE AND /OR RENT (Item @ Cost/Hour X # of Hours X # Fiscal Years = Cost/Item): Note: Purchase require written justification that demonstrates cost benefits over leasing or renting.	COST/ITEM
Helicopter Seed bucket Rental (2) @ \$300/day X 20 days	\$6,000.00
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	\$6,000.00
► MATERIALS AND SUPPLIES: (Item @ Cost/Each X Quantity X # Fiscal Years = Cost/Item):	COST/ITEM
Drill Seed Mix Average Seed Costs @ \$ 1.61/avg price/lb X 58,966 lbs X 1yr	\$95,116.00
Aerial Seed Mix Average Seed Costs @ \$ 1.84/avg price/lb X 83,182 lbs X 1yr	\$152,950.00
TOTAL MATERIALS AND SUPPLY COST	\$248,066.00
► TRAVEL COST (Personnel or Equipment @ Rate X Round Trips X #Fiscal Years = Cost/Item):	COST/ITEM
Seed transport vehicle x \$.50/mile x 800 miles per day x 30 days for Year 1	\$12,000.00
Seed transport vehicle x \$.50/mile x 800 miles per day x 50 days for Year 2	\$20,000.00
Support Vehicle: \$1.00/mile X 200 miles/day X 30 days for Year 1 (FY2001)	\$6,000.00
Support Vehicle: \$1.00/mile X 200 miles/day X 50 days for Year 2 (FY2002)	\$10,000.00
Per Diem for pilot and mechanic @ \$168/day X 20 days	\$3,360.00
Fuel truck milage @ \$1.00/mile X 200/mile X 20 days	\$4,000.00
TOTAL TRAVEL COST	\$55,360.00
► CONTRACT COST (Labor or Equipment @ Cost/Hour X #Hours X #Fiscal Years = Cost/Item):	COST/ITEM
Seed mixing cost @ \$0.10/lb. X 142,148 lbs x 1 Year	\$14,215.00
Contracted Aerial Application @ \$7.25/acre X 15,528 acres	\$112,578.00
4% Contract administration and oversight to agency (.04% X \$112,578.00 (total contract))	\$4,503.00
Rangeland drill application x 7,562 Acres x \$13.50 /acre x 1 Year	\$102,087.00
4% Contract Administration and oversight to agency (.04% X \$102,807.00 (total contract))	\$4,083.00
TOTAL CONTRACT COST	\$237,466.00

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	acres drill	\$ 27.50	1,650	\$45,372.00	EFR	C
FY 1	acres aerial	\$ 23.70	9,616	\$227,908.00	EFR	C
FY 2	acres drill	\$ 31.35	5,912	\$185,340.00	EFR	C
FY 2	acres aerial	\$ 21.03	5,912	\$124,312.00	EFR	C
FY 3						
						C

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP = Agency Operating Fund
O = Other

METHODS:

P = Agency Personnel Services
C = Contract (Long-Term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2-3 independent contractual sources.	
2. Documented cost figures from similar project work obtained from local agency sources.	M, C
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimates based upon government wage rates and material cost.	
5. No cost estimate required - cost charged to Fire Suppression Account.	

P = Personnel Services, **M** = Materials/Supplies, **T** = Travel, **C** = Contract, **F** = Suppression

III. RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT:

List Relevant Documentation and Cross-Reference Location within BAER Report:
Treatment areas located in Treatment Maps (SEE MAP INDEX). Seeding mixtures are attached.
Seed mixtures are listed and discussed in the Vegetation Assessment and seed cost prices were obtained from the following: Grassland West:1-888-456-7712, Granite Seed Co.,801-531-1456, Blm Seed Warehouse:208-384-3417.

IV. TOTAL COST BY FIRE

FIRE NAME	UNITS TREATED	COST
Basin	966	\$ 22,683.00
Beowawe	1,955	\$ 53,814.00
Big Springs	2,452	\$ 52,557.00
Kelly Creek	16,702	\$ 419,801.00
Linka	668	\$ 20,959.00
Omni	347	\$ 13,118.00
TOTAL COST	23,090	\$ 582,932.00

ELKO 13 FIRE COMPLEX SEED MIX LISTING

Fire Name	Drill Seed Mixes	
	Rangeland Seed Mix	Rate/ac lbs.
Basin	Nordan Crested Wheatgrass Hycrest Crested Wheatgrass Vavilov Siberian Wheatgrass	2.0 2.0 2.0
Big Springs	<u>Area 1 (Low Fan)</u> Boizoisky Russian Wildrye Vavilov Siberian Wheatgrass <u>Area 2 (Middle Fan)</u> Vavilov Siberian Wheatgrass	5.0 2.0 6.0
Kelly Creek	<u>Area 3 (Jakes Creek)</u> Vavilov Siberian Wheatgrass Hycrest Crested Wheatgrass Nordan Crested Wheatgrass Boizoisky Russian Wildrye	2.5 1.0 1.0 2.0
Linka	Nordan Crested Wheatgrass Intermediate Wheatgrass	4.0 4.0

Fire Name	Aerial Seed Mixes	
	Rangeland Seed Mix	Rate/ac lbs.
Basin	Forage Kochia Western Yarrow Rice Hulls	1.0 0.1 3.0
Beowawe	Forage Kochia Western Yarrow Vavilov Siberian Wheatgrass Nordan Crested Wheatgrass	1.0 0.1 4.5 2.25
Big Springs	<u>Area 1 (Low Fan)</u> Forage Kochia Rice Hulls <u>Area 2 (Middle Fan)</u> Prostrate Kochia Basin Big Sagebrush Wyoming Big Sagebrush Mountain Big Sagebrush Rice Hulls	0.4 3.0 0.4 0.10 0.10 0.10 3.0
Kelly Creek	<u>Area 1 (Knolls/Jakes Creek)</u> Forage Kochia Wyoming Big Sagebrush Western Yarrow Rice Hulls <u>Area 2 (Jakes Creek Bench)</u> Western Yarrow Snake River Wheatgrass Rice Hulls <u>Area 3 (Jakes Creek)</u> Forage Kochia Western Yarrow Rice Hulls	0.4 0.15 0.10 2.7 0.10 3.0 1.0 1.0 0.1 3.0

Fire Name	Aerial Seed Mixes	
	Rangeland Seed Mix	Rate/ac lbs.
Linka	Forage Kochia Western Yarrow Vavilov Siberian Wheatgrass Nordan Crested Wheatgrass	1.0 0.1 4.5 2.25
Omni	Secar Snake River Wheatgrass Western Yarrow Rice Hulls	3.0 0.1 1.0